

LAPORAN TUGAS PEMROGRAMAN BERBASIS FRAMEWORK

Jobsheet 1

Pengantar dan Instalasi NodeJs dan Library ReactJS



Disusun Oleh :

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Praktikum – Bagian 1: Instalasi npm dan NodeJS

Langkah	Keterangan																				
1	<p>Untuk mengecek npm dan node version yang terinstall dengan syntax “npm –version” dan “node –version”</p> <pre>PS D:\data\Users\User\Documents\College\Framework Prog> npm --version 6.14.8 PS D:\data\Users\User\Documents\College\Framework Prog> node --version v12.19.0 PS D:\data\Users\User\Documents\College\Framework Prog> █</pre> <p>Untuk menginstall react menggunakan syntax “npm install –g create-react-app”</p> <pre>PS D:\data\Users\User\Documents\College\Framework Prog> npm install -g create-react-app C:\Users\mycomp\AppData\Roaming\npm\create-react-app -> C:\Users\mycomp\AppData\Roaming\npm\node_modules\create-react-app\index.js + create-react-app@4.0.2 added 67 packages from 25 contributors in 7.282s</pre> <p>Percobaan Pertama (membuat package json)</p> <p>cd untuk masuk ke direktori</p> <p>mkdir untuk masuk ke direktori</p> <p>ls untuk menampilkan list direktori pada direktori kita sekarang berada</p> <p>Buat direktori baru bernama “percobaan_pertama_hunayn”</p> <pre>PS D:\data\Users\User\Documents\College\Framework Prog> cd framework_prog PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog> cd 1stWeek PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek> mkdir percobaan_pertama_hunayn</pre> <p>Directory: D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek</p> <table><thead><tr><th>Mode</th><th>LastWriteTime</th><th>Length</th><th>Name</th></tr></thead><tbody><tr><td>d-----</td><td>2/15/2021 10:01 AM</td><td></td><td>percobaan_pertama_hunayn</td></tr></tbody></table> <pre>PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek> █</pre> <p>Direktori baru telah terbuat apabila mengecek dengan perintah ls</p> <pre>PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek> ls</pre> <p>Directory: D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek</p> <table><thead><tr><th>Mode</th><th>LastWriteTime</th><th>Length</th><th>Name</th></tr></thead><tbody><tr><td>d-----</td><td>2/15/2021 10:01 AM</td><td></td><td>percobaan_pertama_hunayn</td></tr><tr><td>-a----</td><td>2/15/2021 9:40 AM</td><td>239149</td><td>Jobsheet_1_TI-3E_1841720148_HunaynRisatayn.docx</td></tr></tbody></table> <pre>PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek> █</pre> <p>Masuk ke direktori baru, kemudian tuliskan syntax “npm init”</p>	Mode	LastWriteTime	Length	Name	d-----	2/15/2021 10:01 AM		percobaan_pertama_hunayn	Mode	LastWriteTime	Length	Name	d-----	2/15/2021 10:01 AM		percobaan_pertama_hunayn	-a----	2/15/2021 9:40 AM	239149	Jobsheet_1_TI-3E_1841720148_HunaynRisatayn.docx
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```

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek> cd percobaan_pertama_hunayn
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (percobaan_pertama_hunayn)
version: (1.0.0)
description: Hunayn Risatayn TI-3E new package json
entry point: (index.js)
test command:
git repository:
keywords:
author: Hunayn Risatayn
license: (ISC)
About to write to D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn\package.json:

{
  "name": "percobaan_pertama_hunayn",

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (percobaan_pertama_hunayn)
version: (1.0.0)
description: Hunayn Risatayn TI-3E new package json
entry point: (index.js)
test command:
git repository:
keywords:
author: Hunayn Risatayn
license: (ISC)
About to write to D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn\package.json:

{
  "name": "percobaan_pertama_hunayn",
  "version": "1.0.0",
  "description": "Hunayn Risatayn TI-3E new package json",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Hunayn Risatayn",
  "license": "ISC"
}

Is this OK? (yes) yes

```

Kemudian cek apakah package json telah terbuat dengan mengetikkan ls

```

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> ls

Directory: D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn

Mode                LastWriteTime         Length Name
----                -
-a-----          2/15/2021  10:11 AM             273 package.json

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn>

```

Percobaan kedua (menambahkan library pada project)

Menambahkan jquery dengan syntax “npm add jquery”

```

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> npm add jquery
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN percobaan_pertama_hunayn@1.0.0 No repository field.

+ jquery@3.5.1
added 1 package from 1 contributor and audited 1 package in 2.249s
found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn>

```

Menambahkan react dengan syntax “npm add react”

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> npm add react
npm WARN percobaan_pertama_hunayn@1.0.0 No repository field.
```

```
+ react@17.0.1
added 4 packages from 3 contributors and audited 5 packages in 2.167s
found 0 vulnerabilities
```

Activate Windows

Go to Settings to activate Windows.

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn>
```

Hasil

package.json X

framework_prog > 1stWeek > percobaan_pertama_hunayn > {} package.json > ...

```
1  {
2    "name": "percobaan_pertama_hunayn",
3    "version": "1.0.0",
4    "description": "Hunayn Risatayn TI-3E new package json",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "Hunayn Risatayn",
10   "license": "ISC",
11   "dependencies": {
12     "jquery": "^3.5.1",
13     "react": "^17.0.1"
14   }
15 }
16
```

Percobaan keempat (menghapus library pada package json)

Untuk menghapus library jquery menggunakan syntax “npm remove jquery”

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> npm remove jquery
npm WARN percobaan_pertama_hunayn@1.0.0 No repository field.
```

```
removed 1 package and audited 4 packages in 1.211s
found 0 vulnerabilities
```

Activate Windows

Go to Settings to activate Windows.

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn>
```

Maka pada dependencies, jquery terhapus hanya tersisa dependency react

`{}` package.json X

framework_prog > 1stWeek > percobaan_pertama_hunayn > `{}` package.json > ...

```
1  {
2    "name": "percobaan_pertama_hunayn",
3    "version": "1.0.0",
4    "description": "Hunayn Risatayn TI-3E new package json",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "Hunayn Risatayn",
10   "license": "ISC",
11   "dependencies": {
12     "react": "^17.0.1"
13   }
14 }
15
```

Untuk mengecek apakah direktori lokal merupakan repository git menggunakan syntax “git status”, apabila bukan repo maka bisa menggunakan direktori tersebut

Create a New Repository pada github, isikan field yang dibutuhkan kemudian clone pada git local

```
mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog
$ git status
fatal: not a git repository (or any of the parent directories): .git

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog
$ git clone https://github.com/hunaynr/framework_prog.git
Cloning into 'framework_prog'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 639 bytes | 26.00 KiB/s, done.

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog
$ git status
fatal: not a git repository (or any of the parent directories): .git

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog
```

Masuk ke direktori yang telah diclone dengan syntax cd, kemudian ketikkan “git status” untuk mengecek apakah isi direktori lokal sudah sama dengan yang ada pada GitHub

```
mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Pr
og
$ cd framework_prog

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Pr
og/framework_prog (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

Ketikkan syntax “git status” apabila ada perubahan yang belum dipush ke GitHub

```
mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Pr
og/framework_prog (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   1stWeek/Jobsheet_1_TI-3E_1841720148_HunaynRisatayn.docx

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        1stWeek/percobaan_pertama_hunayn/
        1stWeek/~$bsheet_1_TI-3E_1841720148_HunaynRisatayn.docx
        1stWeek/~WRL1955.tmp

no changes added to commit (use "git add" and/or "git commit -a")

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Pr
og/framework_prog (main)
$ |
```

Tuliskan syntax “git add .” dengan spcace+titik apabila ingin menambahkan semua file pada direktori tersebut

```

mycomp@DESKTOP-T7NRGCJ MINGW64 /d/data/Users/User/Documents/College/Framework Pro
og/framework_prog (main)
$ git add .
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/.bin/loose-envify.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/.bin/loose-envify.ps1.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/js-tokens/CHANGELOG.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/js-tokens/LICENSE.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/js-tokens/README.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/js-tokens/index.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/js-tokens/package.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/LICENSE.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/README.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/cli.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/custom.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/index.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/loose-envify.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/package.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo
dules/loose-envify/replace.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in 1stWeek/percobaan_pertama_hunayn/node_mo

```

Lakukan commit on changes dengan syntax "git commit -m "add some comments"


```

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog/framework_prog (main)
$ git commit -m "percobaan_pertama hunaynr"
[main 79105c7] percobaan_pertama hunaynr
43 files changed, 9673 insertions(+)
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/.bin/loose-envify
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/.bin/loose-envify.cmd
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/.bin/loose-envify.ps1
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/js-tokens/CHANGELOG.md
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/js-tokens/LICENSE
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/js-tokens/README.md
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/js-tokens/index.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/js-tokens/package.json
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/LICENSE
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/README.md
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/cli.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/custom.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/index.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/loose-envify.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/package.json
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/loose-envify/replace.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/object-assign/index.js
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/object-assign/license
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/object-assign/package.json
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/object-assign/readme.md
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/react/LICENSE
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/react/README.md
 create mode 100644 1stWeek/percobaan_pertama_hunayn/node_modules/react/build-in

```

Push ke GitHub dengan syntax "git push"

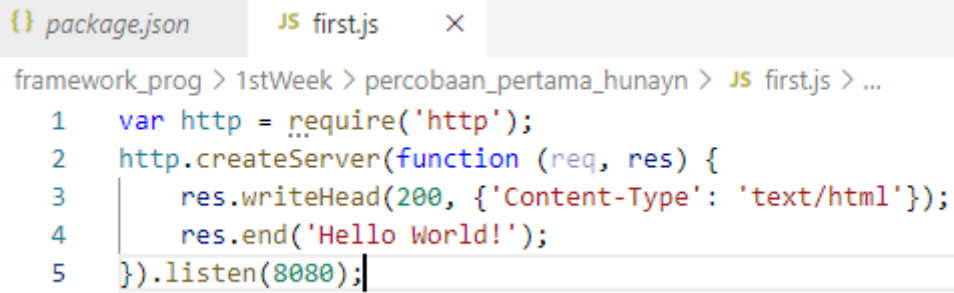
```

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog/framework_prog (main)
$
$ git push
Enumerating objects: 58, done.
Counting objects: 100% (58/58), done.
Delta compression using up to 4 threads
Compressing objects: 100% (55/55), done.
Writing objects: 100% (55/55), 523.74 KiB | 9.88 MiB/s, done.
Total 55 (delta 11), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (11/11), done.
To https://github.com/hunaynr/framework_prog.git
   f4db8cd..79105c7  main -> main

mycomp@DESKTOP-T7NRGCI MINGW64 /d/data/Users/User/Documents/College/Framework Prog/framework_prog (main)
$ |

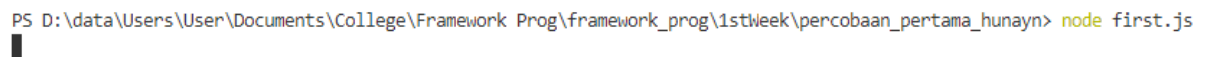
```


Menambahkan file first.js untuk menampilkan Hello World! pada Node.js



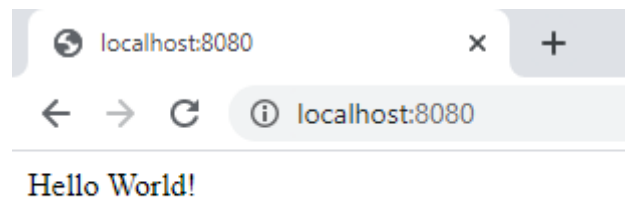
```
{ } package.json JS first.js ×
framework_prog > 1stWeek > percobaan_pertama_hunayn > JS first.js > ...
1 var http = require('http');
2 http.createServer(function (req, res) {
3   res.writeHead(200, {'Content-Type': 'text/html'});
4   res.end('Hello World!');
5 }).listen(8080);
```

Untuk mengeksekusi kode dengan command “node first.js”



```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\1stWeek\percobaan_pertama_hunayn> node first.js
```

Output pada broser dengan mengetikkan “localhost:8080”



localhost:8080

← → ↻ ⓘ localhost:8080

Hello World!

Link GitHub : https://github.com/hunaynr/framework_prog/tree/main/1stWeek

